

Projects First-Round Winner
Innovations Challenge

April 2016
Prepared by Transportation Planning
Missouri Department of Transportation

Smarter Signalized One-Lane Bridge



Description

The decision was made to implement a signalized one-lane bridge for a deficient bridge on US 24 in Keytesville. Instead of simply putting up a temporary work zone signal that runs strictly on timers, district staff constructed, programmed, and implemented a signal for this bridge that used detection and logic programming to enable it to function “smarter.” The innovative signal eliminates unnecessary delay to traffic approaching the bridge.

Benefit

This signal system’s programming prevents a driver from having a red light except when it is necessary. This increases public safety by reducing drivers running a red light and potentially eliminating head-on collisions with oncoming traffic. Since motorists are able to cross the bridge in a timely manner, the light system saves motorists’ travel time.

Materials and Labor

Materials: \$5,100
Labor: 168 hours

For More Information Contact:

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Additional photos can be seen by accessing the Innovations Challenge SharePoint page at: <http://sharepoint/systemdelivery/TP/Documents/InnovationsChallenge.aspx>.